

ENERGY

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ENERGY = MC^2 ...THE MICHIGAN COMPUTER CONSORTIUM MAGAZINE

ISSN: 0740-2759

OCTOBER 1984



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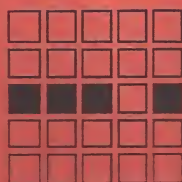
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(call for special)



PERRY COMPUTERS

SEPTEMBER 1984
 SU MO TU WE TH FR SA
 2 3 4 5 6 7 8
 9 10 11 12 13 14 15
 16 17 18 19 20 21 22
 23 24 25 26 27 28 29
 30

CONSORTIUM CALENDAR

OCTOBER 1984

NOVEMBER 1984
 SU MO TU WE TH FR SA
 1 2 3
 4 5 6 7 8 9 10
 11 12 13 14 15 16 17
 18 19 20 21 22 23 24
 25 26 27 28 29 30

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4	5	6
		CHAOS BASIC SIG	M36 EXEC		Yom Kippur CCUG	
LANSING HAMFEST CHTUG	7 Columbus Day Obs.	8	9 OSBORNE SIG HEATH SIG	10 LACC	11	12 13
14	15	16	17 M36 CHAOS ASM SIG	18	19 CHAOS APPLE LUG	20
21	22 UPCO (IBM PC)	23	24 CP/M SIG	25	26	27
28	29	30 Halloween	31			

LANSING AREA COMPUTER CLUBS

Apple LUG (Lansing Users Group)

Meets: Last Saturday (1 week earlier in Nov.) 9:30 am
 Next meetings Oct. 20, Nov. 17
 Lansing Public Library, 401 S. Capitol
 Contact: P.O. Box 27144, Lansing, MI 48910
 353-6880 (days); 351-1516 (evenings)

CCUG (Greater Lansing Color Computer Users Group) (MC2)

Meets: First Saturday, 1:00 P.M.
 East Lansing Public Library, 950 Abbott, E.L.
 Contact: P.O. Box 14114, Lansing, MI 48901
 Terry Feichtenbiner 371-1594

CHAOS (Capitol Hill Atari Owners Society) (MC2)

Meets: Third Saturday 9:30 AM
 Lansing Public Library, 401 S. Capitol
 Contact: Ike Hudson 351-3092

CHAOS Assembler SIG (MC2)

Meets: 3rd Thursday
 Contact: Wendell Proudfoot 371-3678

CHAOS BASIC SIG (MC2)

Meets: 1st Wednesday 7:00 PM
 Foster Community Center, 200 N Foster, Lansing
 Contact: Mike Aldrich 394-2412 or Ron Onufer 394-0281

CHTUG (Central Michigan TRS-80 Users Group) (MC2)

Meets: First Sunday, 1 PM
 Library of Michigan, 735 East Michigan, Lansing
 Contact: Sky Tribell 349-1857

LACC (Lansing Area Commodore Club)

Meets: Second Thursday, 7:30 PM
 All Saints Episcopal Church
 800 Abbott, East Lansing
 Contact: Jae Walker (president) 351-7061

M36 (Mid-Michigan Microcomputer Group) (MC2)

Meets: Third Thursday (usually), 7:30 PM
 East Lansing Public Library, 950 Abbott, E.L.
 Contact: Dave Chun 394-6318
 Executive Meetings:
 First Thursday, 7:30 PM
 Beggar's Banquet, 218 Abbott, East Lansing

M36 CP/M SIG (MC2)

Meets: Last Thursday, 7:30 PM
 Foster Community Center, 200 N. Foster, Lansing
 Contact: Greg Martin 484-5850

M36 Heath/Zenith SIG (MC2)

Meets: 2nd Wednesday, 7:30 pm
 All Saints Episcopal Church
 800 Abbott, East Lansing
 Contact: Bill Goodwin 349-9657

M36 Osborne SIG (MC2)

Meets: 2nd Wednesday, 7:30 pm
 East Lansing Public Library, 950 Abbott, E.L.
 Contact: Jim Pease 332-8746

TI Users Group

Meets: 2nd Tuesday
 Naval-Marine Corps Reserve Center
 1620 E. Saginaw, Lansing
 Contact: Steve Bennett, 377-1676 (days), 394-1439 (eves)

U.P.C.O. (Users' Personal Computer Organization--IBM PC group)

Meets: 4th Tuesday, 7:30 PM
 Contact: Skip Osterhus 321-3425

Clubs designated (MC2) are members of the Michigan Computer Consortium.

This listing is as accurate as the information we receive. To list an event or update information, contact Joe Werner at 337-7415 (evenings).

ABOUT ENERGY

ENERGY is published monthly by the Michigan Computer Consortium (MC²), P.O. Box 1302, East Lansing, Michigan 48823. **ENERGY** is distributed to members of the computer clubs affiliated with MC², and is sold at finer local retailers.

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ABOUT THE MICHIGAN COMPUTER CONSORTIUM

The Michigan Computer Consortium (MC²) was formed in 1983 to sponsor joint activities involving computer clubs affiliated with MC². Current members of MC² are:

CHAOS (Capitol Hill Atari Owners' Society)
CMTUG (Central Michigan TRS-80 Users' Group)
M3G (Mid-Michigan Microcomputer Group).

Information about each of these clubs is published elsewhere in **ENERGY**.

EDITORIAL BOARD

Dennis Cullinan	(CMTUG)	372-6590
Terry Feichtenbinder	(CoCo)	371-1594
Ike Hudson	(CHAOS)	351-3092
Rob Peck	(CHAOS)	887-0327
Joe Werner	(M3G)	337-7415

ADVERTISING

Advertising in **ENERGY** is an economical way to promote your products or services to a key audience involved in personal computing. Three sizes of ads are available: business card, half-page, and full-page. Advertising space is limited and controlled, so that ads will never get "lost". Camera-ready copy is needed by the 15th of the month preceeding publication. For more information, contact the Editor.

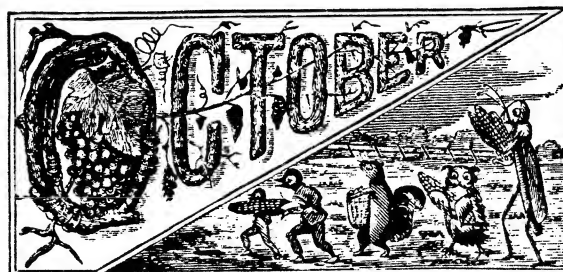
ARTICLE SUBMISSIONS

Persons wishing to submit articles are encouraged to do so! Articles may be submitted electronically via CompuNet, or in camera-ready form (3.5 inch columns, 16 characters per inch), or in other forms. Contact any member of the Editorial Board. The deadline for all articles is the 15th of the month preceeding publication.



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If a store doesn't advertise, then let them know that you would like to see their ad in our newsletter. If they hear people tell them, then they will eventually get the point and advertise.

The real question is "Wh. buy local if you aren't getting any advertising support?" The answer is "I don't know of a good reason."

VIEW FROM THE TOP by David T.W. Chun President, M³G

The next meeting is OCTOBER 18 at 19:30 (7:30 pm), the third Thursday of the month. The subject should be more than of mild interest to you hackers and would be hackers. The talk will be on the sort of occurrence which is terrible when it happens but with the passage of time one can finally talk about (some call this a nightmare). Tim Childs from the Computer Laboratory will be our guest speaker telling "Horror Stories on the ' ' and other computers". I'll let you fill in the missing three letters. Just because of the nature of the presentation, I expect a very informal format where comments from the floor will be welcomed (I wonder if I should have cleared this with Tim first?), especially those reminiscences with such and such machine that you had to spent a long evening with. Granted, a talk like this would be better placed at the Coral Gables or some similar surroundings than our friendly library, but this gives the under 21's a chance to get in their licks. Should be interesting and I'll see you there.

Those of you who didn't attend last month's meeting are probably wondering what's going on. Wasn't Tim suppose to speak last month? Well, yes. A scheduling conflict arose and Tim has been rescheduled for October--anyway his talk is more in keeping with the Halloween holiday; and to make amends, Tim has promised even more horror (or did he say horrible) stories.

Fortunately, M³G is blessed with many talented people (possibly some may even play musical instruments) and I would like to take this opportunity to thank Warren Wolfe for moving his presentation up a month with so little notice. Warren, before he left, was a frequent speaker before the M³G and it is good to welcome him back. Incidentally, if you have not been able to corner Greg Martin, Warren is another person very knowledgeable of CP/M being the past president of the CP/M SIG--just don't ask him anything about 'operating systems for androids'.

Last month, I received a flyer in the mail announcing 'Ham Fair 1984'. The good news is that it will be held locally at the Michigan National Guard Armory at 2500 S. Washington Avenue. The bad news is that it will be on Sunday, October 7, days before most of you will get the newsletter. If by chance you do get this in time to go, I strongly recommend

it. Last year I attended my first ham fair and was beside myself with all that 'stuff'. Naturally if lugging home a lot of junk is grounds for divorce than you might want to think twice of going (or you could go but be sure to leave all your charge cards, money, and checkbook home). Last year, I picked up a huge sheet of plastic of the type sold as work surfaces in electronic shops. Not known to too many others, this is the same type of surface sold for 2-3 times as much in fancy gourmet shops as cutting boards. Oh yes, the electronic stuff was interesting too.

Our November meeting will in all probability not be held on the third Thursday. I am trying to reserve both rooms for the 29th of November to hold a special program. At the last executive meeting we decided we would attempt to bring together several of the dealers in town with their wares for a sort of "wouldn't it be nice to find under my Christmas Tree..." theme. Just close your eyes and let your imagination roam awhile. Your thoughts and services in this matter will be welcome.

By the time this newsletter reaches most of you, the Fall quarter will have begun at MSU and the students will have settled in. I urge all of you out there to 'invite' (trans. twist some arms) them to join us at the monthly meeting of M³G or at any of the other SIG meetings. Let them know we exist and that we welcome all who have interests in computers.

THE USER by Joe Werner

A Discussion about Civics

As I write this, it is mid-September, and the campaign season is just beginning. But, you will be reading this sometime in October, and the election is less than a month away.

While those who know me know that I am rather strong in my opinions, I will not attempt to tell you who to vote for -- that's simply not within the purview of this magazine. But I would still like to climb up on a soapbox for a few minutes, if you'll permit me.

Elections are of vital import to all of us. The people we elect will attempt to make decisions in our names and on our behalf for the next two, four, or six years. The choice of these people is not something we should leave to others. Neither is it something we should take lightly.

Do you know who's running for office? Not just for President -- the presidential campaigns of both major parties will attempt to ensure that we know about Reagan and Mondale and Ferraro and Bush. But this year, here in Michigan, we will also be choosing a United States Senator, a Representative to Congress, a State Representative, various County officials (Sheriff, Clerk, Registrar of Deeds, Treasurer, and Drain Commissioner, to be specific), and a County Board of Commissioners. We also elect members of the governing boards of the three major state Universities, two members of the State Board of Education, and various non-partisan judges, including this year three members of the State Supreme Court.

Now, the national issues dominate much of the press coverage. Are we at serious risk of nuclear war? Are we taxed too much or not enough? Are we spending too much or not enough on defense/welfare/foreign aid/etc.? Should we be in Lebanon? And so on. But remember, it is your State Legislature and your County Board of Commissioners who decide such things as what roads get repaved, what bridges get replaced, and what institutions get tax support. It is your County Drain Commissioner who tries to see to it that the sewers don't back up into your basement or flood a road out. And it is the judges we elect who we turn to when we need wise decisions to ensure justice for all.

There are also issues which will be of interest to us as computer users and enthusiasts. We know that many organizations both governmental and private maintain data on each of us. Is that data being protected and verified and kept from improper use? There is talk in some circles about licensing and regulating people who program for hire. Is this a good idea, or not? And in the light of the Milwaukee 414s and the media focus on "hackers" making illegal access to remote computers, should home computers or modems be regulated (or restricted, or licensed and taxed)?

We should try to be informed citizens as this election draws near. It isn't easy to be so -- we must work at it. But our community, our state, and our country are worth it.

We might also find that there are candidates we'd like to support. If so, there are many things that computer hobbyists can do. This will probably be the first campaign where computers are available to all candidates for all offices. If you find a candidate you support, offer your help, or your computer's services. Somehow, I can't imagine a candidate refusing reasonable offers of help.

Another area where computer awareness is helpful is in the area of poll-watching. Most communities around here are now using punched-card ballots. Political organizations are allowed observers (called challengers) at the ballot-counting centers. Computer-aware people are much less likely to be awed or intimidated by the technology used than would be the average person. And there are incidents in many vote counts where an observer should challenge proceedings. The objective is to ensure that a fair vote count occurs.

In conclusion, I would urge you to be a good citizen and be an informed, involved, voter. Become aware of the issues and the personalities in the various campaigns. Become involved in campaigns for candidates you support. And vote intelligently, for the good of yourself, your community, and your country.

As most of us know by now MS-DOS 2.13 is out. Unfortunately, in spite of all the time that Zenith used to prepare it, there was still a major bug in the manner that serial I/O was handled. Incoming characters could cause a loss of characters from the output. This was most obvious on printers. (I'm lucky here, my printer is parallel) It didn't take long for a fix to surface. Before most people could get excited about the problem a fix was put up on the HUG BBS. Apparently this fix was out before Zenith got the official patch up on their BBS in St. Joe. The rumor is that MS-DOS 2.14 will soon come along with the problem fixed. Sure wish they would get these things right the first time! (This reminds me of the bug in CP/M-86 that allowed it to randomly drop out of 8-bit programs and back to the system prompt! The only patch was in Remark. If you don't belong to HUG, You'd never know about the fix!)

Late word from compuserve is that the DOS 2 programmer's package is available now. It consists of 4 disks and a manual. The disks contain utilities and source code for both the -100 and the -150. Apparently the price is \$149. The word is that purchasers of DOS 2 will get a coupon for \$75 off. With the 20% HUG discount this means that the actual price will be \$60. Combine this with the discounted price of the op sys and the total is \$140. This is \$10 LESS than the price of ver. 1.25 (list). If Zenith had announced prices like this at the beginning there would have been fewer unhappy people. The package is supposed to contain a screen editor to replace that horror, EDLIN! In fact, there are supposed to be two versions, one for the -100 and one for the -150. No mention was made of source code for the editor. I hope there is. I would like to try to move it over to CP/M-86.

You say that you like your -100 but miss the z80 that was in your old -89? Have a few programs from the -89 that won't run on the -100 because of the lack of the z80? If you are the adventurous type and want to dabble in hardware check out the Sept. issue of Microsystems. The 5-100 Bus column on page 14 shows an adaptor to allow the use a National NSC-800 in place of an 8085 on a CompuPro CPU 8085/8088. (The NSC-800 has the pinout of an 8085 and uses the z80 instruction set.) I haven't looked too closely at the article but I assume that it can be modified for the -100. Who will lead the way for the rest of us?

Saw a message to Software Wizardry on Compuserve. Apparently there is a version of LOGO for the -100 at Clarkson College and Software Wizardry is trying to get it. Hope its true. LOGO sounds interesting.

Recently had a call from Claude Watson. He told of another new trick that -100's can do. He couldn't get his machine to boot. Instead of just beeping and dying it apparently went to the diagnostic routines in the ROM and told him what the bad chip was! Very smart machine!

CHAOS

Atari & TARICON A Betrayal of Trust

by Dick Kushner - JACG

Betrayal: to fail or desert especially in time of need.

Trust: reliance on the character or truth of someone or something.

Atari has violated a trust. The best supporters and salespersons for Atari were the user groups. We demonstrated all the latest software and hardware, ranted and raved to a largely deaf world about the power and ease of use of the Atari computers and guided the new, bedazzled purchasers along the path toward computer literacy. We even endeavored to put on an Atari convention (TARICON). We invited Atari. They accepted. Then, the day before the convention, they declined to come. They wouldn't send a display booth, they wouldn't send hardware or software, they wouldn't even send one person to represent them. JACG sent three people (subsidizing their expenses) who drove 13 hours straight to get there because we felt it was important to make this gesture of support. Atari didn't think enough of the user groups to even make the gesture of being present. Yes, at the last minute, they agreed to donate \$500 to fund part of the convention, but that doesn't cut it, Atari! You blew it! A singularly precious, golden opportunity was lost to support those who right up until the TARICON convention supported you. It is truly time to say, "Jack, enough is enough". My support is gone. I will no longer waste my time or JACG's time pandering to Atari's interests. Am I angry? You're damned right I am!

JACG

CLASSIFIED ADVERTISEMENTS

Published free for members of MC2 groups.

FOR SALE: Apeface Interface \$45.00
Call Jim Bolthouse 371-1660

AUCTION! AUCTION! AUCTION! AUCTION!

Saturday, October 20
Foster Community Center

Used Software, Used Hardware, and other
Computer related items will be bought and sold
at the CHAOS annual computer auction. Bring
items to sell or come to buy, but be there!

MC2 MEMBERS PLACE YOUR AD FREE!
THIS SPACE WAS SAVED FOR YOUR AD. CALL IKE
AT 351-3092 OR WRITE TO CHAOS, PO BOX 16132,
FLANSING, MI 48901 TO PLACE ADS. THIS INCLUDES
MEMBERS OF CHAOS, CNTUG AND M3G. CALL NOW!!!

PRESIDENTIAL RESIGNATION

BY IKE HUDSON

In the last newsletter, I resigned pending a vote of confidence. If you were at the last meeting, then you are aware that no vote was taken. I have decided that my resignation is firm and immediate.

It is time for a change in leadership of the club. I am asking that the current elected and appointed officers remain in place. This will give the new president a good group of officers to make an easy transition. In March we will have a complete election. I will not accept any elected office in March.

If you would like to run for president or nominate someone to run for president, then let me, Rob Peck or Lance Ward know. Don't wait for someone else to step forward. It is your club and we need your leadership. If we do not have a president who is willing to do the job, then the club will gradually cease to function.

The job of President is not difficult, but it does require a commitment and a willingness to provide leadership and make decisions. We need someone who is willing to do the job, not someone who would just like to have a title. It can be a very rewarding experience to someone who wants experience in leading a very active computer group.

Look around and see if you know someone who might be willing to serve the group. If they are willing and you think they are capable, then nominate them. I hope we will have more than one nominee. We have about 175 members to select from!

The election will be held at the October meeting. This should be a big meeting. We will have the election of a new president and an auction of all sorts of computer software and hardware. Be there, it may be a rewarding experience.

...AND WELL WORTH THE WAIT.



"WE'RE NOT READY YET. GO HAVE
ANOTHER SODA CRACKER."

Portland Atari Club

PROBABLY NOT!!!!

CHAOS

NEWSLETTER ARTICLES

BY IKE HUDSON

You may have noticed that the last issue of the newsletter was skimpy. There is good reason for this. It is NOT because we couldn't afford to print more. It was because NO ONE is submitting articles and I don't like to use a lot of reprints from other newsletters. If YOU don't submit articles, then WE won't have anything to read!

If you have some new software or hardware that has not been reviewed, then let us know about it. If you have some ideas or tips on how to play a game, use a database, program a little better, or use the computer a little better, then write about it. If you don't have a word processor, then get with someone who does.

If you don't see articles about something you want to know more about, then write something about that topic and invite comments and solutions. If you don't start the ball rolling NO ONE will!

I recently heard a disgruntled member say that we never did anything for tape users. If that is true, it is only because NO ONE has identified anything that is needed and NO ONE has volunteered to spearhead the effort. As long as NO ONE is leading the effort, NOTHING will get done. I only hope that NO ONE will not become our most active member. If NO ONE is very active, then we can all expect to get NOTHING.

Get busy and write that article. Summer is over and it is time to get back into the swing.

SPECIAL INTEREST GROUPS

BY IKE HUDSON

Summer is over and it is time to get organized. If you want to have a Special Interest Group in some area of interest, it is time to get started.

How do you start a SIG? Bring a sheet of paper to the next meeting. Make an announcement that you want to start a SIG. Ask for a show of hands if people are interested. Then pass the sheet of paper around to collect names and phone numbers of those who are interested. You may even want to have a quick organizing meeting after the meeting to set a date for the first meeting.

Once you have some people interested, set a date for a meeting that is convenient to as many people as possible. Announce the meeting times and places in the newsletter. Write an article about what the SIG plans to do or what it is doing.

If YOU don't do it, then maybe NO ONE will. If NO ONE starts a SIG, then don't expect results. A SIG is where the real action is. SIGs can be based on anything. How about Adventure Games players, or Simulation

Games players, or Arcade Games players or just Games players. A SIG can be based on a language. It can concentrate on beginners helping each other or advanced programmers solving intricate algorithms. You can have Business SIGs, Education SIGs, Telecommunications SIGs, Tape Users SIGs, or NO SIGs. It is up to YOU!

Remember, if NO ONE does it, YOU get NOTHING. We have enough members to have a lot of good SIGs. Someone has to take the lead. If YOU take the lead, you may find that others are willing to share the responsibilities of leadership.

A POEM FOR PROUD ATARI OWNERS

REPRINTED FROM JAGG

The Adam it seems, is the stuff of sweet dreams.
The cassette drive is many times faster!
But no matter the shape - A tape's still a tape,
and the Adam is still a disaster!

The PC of fame (which carries the name
of the well known business machines)
Well what features are new for the spent grand of two.
A control for self-flushing latrines?

What else is there new - The TRaSh II?
"What's the difference?", the glibble ask.
Well the keyboard is gone - with two handles built on,
to make disposal an easier task!

And then the Big Mac., the last of this pack.
This "whooper" costs plenty of dough.
Who needs a new mouse? I have mice in my house.
and the Trac-ball was out long ago!

So if you're perplexed about what to do next.
Which computer is actually best?
Well there's one that's alone-not a reprocessed clone.
Which stands out by itself from the rest.

The 800 is sleek-its innards unique.
the best from the case to the core!
So buy her or steal her, or go and your dealer.
This is the one to look out for!

Victor Hwang (Jersey AGG)

CHAOS

THE PUBLICATIONS LIBRARY

Well, thanks to donations, Taricon and the book buy, we have accumulated some pretty good publications. Last meeting I brought in almost everything but do not plan on doing that all the time so I would suggest that you call me at 394-2412 if you want to make sure that I bring something in to the meeting for you. If you can't wait that long give me a call and we can arrange a pickup point. By the way my name is Mike Aldrich, and I'm your publications librarian. The following is a list of what is in the library.

Books

Advanced Programming Techniques For Your Atari - By Linda M. Schreiber
 Free Software For Your Atari
 Atari Sound and Graphics - Moore, Lower, & Albrecht
 Computer-Ease - Phillip Camillo
 Your Atari Computer - By Ion Poole
 Kids & The Atari - By Edward H. Carlson
 Atari 400/800 Technical User Notes
 Software For the Atari 1983
 De Re Atari
 Mapping the Atari - By Ian Chadwick
 Inside Atari DOS - By OSS
 Dr. Wackos Miracle Guide to Designing and Programming Your Own
 Atari Computer Arcade Games
 Atari Demopacs (3)
 Atari Computer Enthusiasts-AMIS BBS Support Guide

Newsletters

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 CHAOS Newsletters Feb 83-Present
 MACE Issues Mar, May, Jun, Jul, Aug, Oct, Nov-82 / Jan, Jul-83 /
 Jan, Feb-84

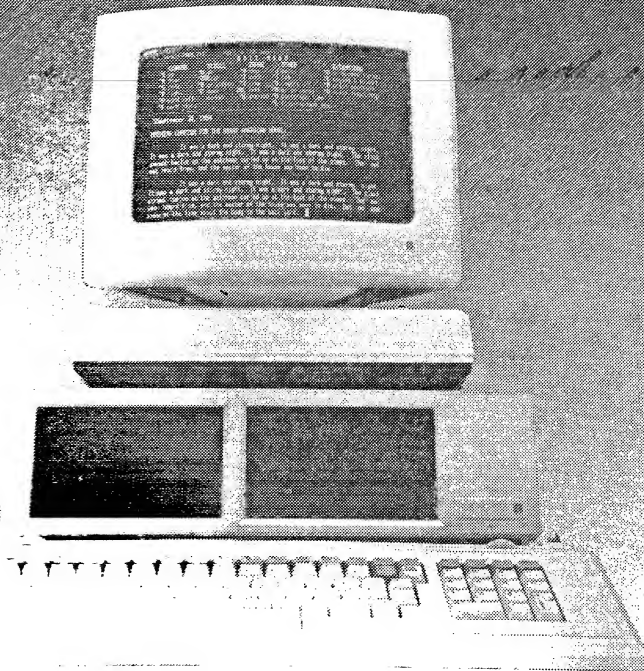
Magazines

Analog #7
 Analog #13 Sept/Oct 1983
 ANTIC - JULY 1983
 ANTIC - AUGUST 1983
 ANTIC - SEPT 1983
 ANTIC - OCT 1983

ANTIC - NOV 1983
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 ANTIC - MAR 1984
 ANTIC - APR 1984
 ANTIC - JUN 1984
 ANTIC - JUL 1984
 ANTIC - AUG 1984
 Atari Connection - (2) Spring 1983
 Atari Connection - (1) Fall 1983
 Atari Connection - (1) Winter 1983
 COMPUTE - April 1983
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 ROM Vol 1, Issue 6 (3)
 ROM Vol 1, Issue 5
 ROM Vol 1, Issue 4
 ROM Vol 1, Issue 3
 ROM Vol 1, Issue 2
 Computer Palace Catalog - Spring
 HELPMWARE Computer Books Spring 84
 APX Atari Program Exchange - Summer 83
 Hi-Res Issue # 1
 SOFTALK - May 1983
 Colecovision Experience - Summer 83 (2)
 Review - Fall 83 Vol 1, Issue 1
 Consumer Electronics Show Daily - June 1984
 Consumer Electronics (CES Special) June 1984
 CES Trade News Daily - June 1984
 Science 84 - July/August 1984
 DIABLO Printer and Parts Catalog - 1984
 DEVOKE Data Products - March 1984
 KPower July/August 1984
 InfoWorld Feb 1984 - Vol 6, Issue 9
 Small Systems World - Oct 1983
 T.H.E. Journal Oct 1983
 C.A.P. June 1984
 T.H.E. Journal Nov 1982

LINKUP (Communications and the 1 Computer) Vol 1, Number 1
 TODAY - The Videotex/Computer Magazine (2) May 1983
 Peripheral, Etc (2) - August 1983
 Electronic Fun - Jan 1983
 Electronic Fun - June 1983
 REMEMBER TO BRING YOUR BOOKS BACK
 EACH MONTH OR CALL ME.

Hard Disk Computer \$1999



MORROW

If you thought you couldn't afford the performance of a hard disk, think again. The MD5-E computer comes with a 5.4 megabyte Seagate hard disk that lets you store up to 2800 pages of text—all retrievable at speeds many times faster than a floppy disk system. The MD5-E also has 128K of RAM, a 384K floppy disk backup, and a tilt & swivel monitor with a low profile keyboard.

The MD5-E runs the superfast CP/M 3.0 operating system. It comes complete with the NewWord word processor and the Correct-It spelling checker for high performance wordprocessing. Thousands of other popular business applications are available if you need them.

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PAGES

CHAOS

C.H.A.O.S

Capitol Hill Atari Owners' Society
P.O. Box 16132
Lansing, MI 48901

James Copland
Atari Inc.
1265 Borregas Ave.
Sunnyvale, Ca

I am writing this letter in response to your letter to us at TARICON 84. I appreciate your offer to help us defray costs by sending \$500.00. I would have preferred some type of presence by Atari.

An Atari presence could have been accomplished by Williams Distributing, if we had known Atari Inc. did not intend to come. In fact it should be noted that Curtis Aldrige had offered to provide people, machines and any assistance Atari needed for the show. I informed several people at Atari (including Jack Tramiel, Bruce Entin, West Shell, Ron Holson, and Wendy Weintraub) that Curtis had made this offer. No one from Atari ever contacted him.

The most disappointing part of all this is that West Shell told me on about 30 July that Atari would be coming to TARICON 84. He said he had discussed it with Jack Tramiel and they had decided that Atari should come to TARICON 84 "in a big way".

Based on this information, we made plans for Atari to be at the show and printed tickets and program books accordingly. Ron Holson called later to confirm that Atari was bringing a 20 x 20 foot display.

Our attendance barely reached the 1800 mark. Most of the attendees came in the first few hours. When they returned home for lunch, they informed their friends that Atari did not come, and many of those informed people did not come. To say the least, the attendance was a big disappointment after the word got out.

We did have representatives from at least 20-25 user groups and most of the major magazines that cover the Atari. Everyone was disappointed by the absence of Atari.

The worst part of all this is that we could not get anyone in authority at Atari to take or return our calls in the week prior to TARICON 84. If we had known at that time that you were not coming, we could have gotten Williams Distributing to stand in for you. This would have at least put a better appearance on the show.

I can now say that I feel like the host who gave a party and the guest of honor did not show up. I might add that our groups are now the broke hosts. We are currently estimating our losses to be about \$2500. We took a risk and we lost! Most of our losses are due to the fact that many attendees stayed away when they found out that Atari was not interested enough to show up.

Whether you realize it or not, the reason this show was put on was to show people how much we, the Atari

CHAOS

users, like our computers. We had hoped that Atari would realize the marketing potential of this show and use it to launch your new marketing campaign. We had also hoped that Atari would see it as an opportunity to show off any new products, and to inform or educate the public on Atari's plans for the future. Whether you realize it or not, most Atari computers sold in the last year were sold by Atari owners. They may have been purchased in a discount store or in a computer store, but we, the owners, did the sales work. In most cases it was because we like the Atari and felt that we were getting more support and quality from Atari than we could from any other home computer vendor.

Now we are beginning to feel foolish. What is worse, others are starting to discount our advice to buy Atari. Our claims that Atari provides better support seems shakier each month. I can only hope that this will not continue to be the case.

TARICON was a success, of sorts. The vast majority of the people who came enjoyed it. Even those who came from as far away as Panama were glad they came. The vendors made money, which makes them happy. The only failure was that the guest of honor did not come. I could not have imagined a TARICON without Atari.

I can appreciate the fact that you, personally did not know about TARICON 84 since you had just come to work for Atari. The implication in your letter, however, was that no one at Atari knew about TARICON 84. They did, and they should have informed you. I won't bore you with the details of dozens of phone calls and the three special delivery letters I sent to Atari, but I can assure you that a great number of people at Atari knew about TARICON 84. I am sorry that someone did not recognize the potential and importance of this convention.

Both MACE and CHAOS appreciate the financial aid you have offered to send. The \$500 will help to offset the \$2500 loss we expect from the convention. You may make the check out to TARICON and send it to me at the letterhead address. I hope this is a sign of the kind of support that we can expect from Atari in the future.

I hope the press goes easy on Atari. Bad publicity for Atari, as deserved as it may be, will not help Atari to provide better support to Atari owners in the future. It may help Atari to realize that their actions will be reflected more than their words.

Sincerely yours,

Will M. Hudson, Jr. (IKE)

Will M. Hudson Jr, President
TARICON 84 Coordinator

THIS WAS MAILED TO ATARI ON 4 SEP 84. (SPECIAL DELIVERY)
NO RESPONSE TO DATE!!!

CMTUG

CROSSROADS, AGAIN by Dennis C. Cullinan

A year ago CMTUG was at a critical state in its short history. Membership had fallen off and interest as shown by meeting attendance was waning. The officers were wanting to step down, but no one was coming forward to take their places. A crisis meeting was held to determine whether to continue or disband. There were enough interested persons at that meeting to prevent dissolution of the club, and it was decided to continue on a month-to-month basis. Since that time I do believe meetings have been more interesting and informative. However, the membership overall has steadfastly retained its constitutional right to noninvolvement and apathy.

This past year CMTUG has been run by a small executive committee, consisting of Harold Haughton, Dennis Hill, Gordon Williams, Sky Tribell, Bill Torrence and me. Dave West also helped out a few times. Now that group consists of me and Bill Torrence. The others have said, in effect, "It's not worth it." Not only can I not blame them for this attitude, but I agree: it's not worth it.

Accordingly, the October meeting of CMTUG will be my last. The Library of Michigan site will no longer be made available for meetings. If the club continues and wants me to continue as club librarian and newsletter editor, I will. In any case I retain my enthusiasm for *Energy* magazine, and will continue, on the basis of my membership in M36, as

editor of this magazine. I have renewed my CMTUG membership for another year, but not as president, especially since I was never elected to that post anyway.

To those of you who may want to mobilize to 'save' CMTUG, let me say that it is not necessary to be a programmer to run this club. One needs a feel for what the average CMTUGer might want to know, and the initiative to find people to come to meetings and talk about those topics. We have been getting new members almost every month, and they still need the basic support of finding sources of products, programs and information.

As discussed last year, there are several options for CMTUG. One, get a new roster of officers and continue as before. Two, allow the incorporation papers to lapse (they expire this month) and re-form as a SIG of M36, which will remove the need for most officers. Three, disband the club entirely and find some equitable way to disperse the club's assets (treasury balance and library holdings). Four, do nothing and let the treasury be confiscated by government through due process of law.

The October meeting will be held Sunday October 7th at 1 PM in the Library of Michigan. A door prize will be awarded if anyone shows up. See you there?

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Directory Algorithm

Thomas J. Kelanic
935 Lilly Lane
Pittsburgh, PA 15221

I became interested in multiple-page directories while writing a computer program to generate daily absence bulletins for my school. Under the old system, a secretary collected attendance rosters from all homerooms, then typed a list of absent students. The list was divided into separate sublists, one for each homeroom. A teacher wishing to check-up on a student first had to know, or find elsewhere, the student's homeroom number. After finding the sublist for the given homeroom, the teacher then looked for the student's last name, alphabetically.

I wanted to improve on the old system by generating a daily directory that looked like a telephone directory. All the inquiring teacher would have to know would be the last name of the student, since there would be only one alphabetized list of names. Following each name would be whatever other information was required, such as homeroom number and cumulative absences. To avoid the possible future necessity of having to go back and re-write my program to take into account changed requirements, I decided that the number of pages, columns, lines per page, and page dimensions should all be variable.

The following program does not produce daily absence bulletins. It will produce any multiple-page directory listing required from a string array in RAM. I believe my program is a general algorithm for producing directories.

In lines 100 - 130, the user's string array is simulated in RAM. The 676 strings "AA—" through "ZZ—" are produced in approximately one minute and forty seconds. These lines must be omitted if the user has their own AS array in RAM.

In lines 170 - 230, not counting 220, the given environmental constants are set. These lines could easily be replaced by LETs. Lines 230 - 290 are the program variables used to specify the directory required, and are the parameters used in the examples which follow. In a real application, N, in line 230, would be constant. However, in this demonstration program N is variable, since the user may not wish to see all 676 strings.

No error-checking is provided in my program. If the user asks for something physically impossible, the program will "bomb". In this case, the user may issue a "GOTO 230" command, and should reconsider his inputs.

To get an idea of the flexibility of the program, the user may try the following two examples. Assuming the constants input were "actual max." = 5, "highest (fixed)" = 63, "lowest (fixed)" = 0, the user is ready.

Example #1: Use 100 strings, 63 highest, 34 lowest, 5 width, 6 columns, and 15 lines per page.

Example #2: Use of 61 strings, 63 highest, 0 lowest, 30 width, 2 columns, and 10 lines per page.

To guarantee at least one space between columns, use a field-width one more than the actual maximum string length. For the example strings of length 5 a field-width of 6 will do.

If you have a line-printer, you must use the correct values for your printer in lines 180 - 210, and change the two PRINTs in lines 600 and 610 to LPRINTs. Also, you may wish to insert some LPRINTs between lines 630 and 640.

```

10 '
20 '          DIRECTORY ALGORITHM
30 '
40 '          THOMAS J. KELANIC
50 '          935 LILLY LANE
60 '          PITTSBURGH, PA. 15221
70 '
80 '          SIMULATE USER ARRAY AS
90 '
100 CLEAR 6000
    : T6=26
    : DIM AS(T6*T6)
110 FOR I=1 TO T6
    : FOR J=1 TO T6
120 AS((I-1)*T6+J)=CHR$(I+64)+CHR$(J+64)+"---"
130 NEXT J
    : NEXT I
140 '
150 '          GET PARAMETERS
160 '
170 INPUT "ACTUAL MAX. STRING LENGTH"; W2
180 PRINT "HIGHEST PRINT POSITION ";
190 INPUT "(FIXED) FOR OUTPUT DEVICE"; W9
200 PRINT "LOWEST PRINT POSITION ";
210 INPUT "(FIXED) FOR OUTPUT DEVICE"; W0
220 DIM B(INT((W9-W0+1)/W2)+1)
230 INPUT "NUMBER OF STRINGS TO BE USED"; N
240 INPUT "HIGHEST PRINT POSITION TO BE USED"; W8
250 INPUT "LOWEST PRINT POSITION TO BE USED"; W1
260 INPUT "COLUMN FIELD-WIDTH TO BE USED"; W
270 PRINT "SELECT 1 TO"; INT((W8-W1+1)/W);
280 INPUT "COLUMNS"; C
290 INPUT "NUMBER OF LINES PER PAGE"; L
300 '
310 '          FOR EACH DIRECTORY
320 '
330 K=L
    : R=0
    : P=INT((N-1)/(C*L))+1
340 CLS
    : PRINT F;"PAGES WILL BE PRODUCED"
350 PRINT "PRESS (ENTER) FOR NEXT PAGE"
360 FOR I=1 TO 600
    : NEXT I
370 '
380 '          FOR EACH PAGE
390 '
400 FOR H=1 TO N STEP C*L
410 CLS
    : B(1)=H
    : P2=INT((B(1)-1)/(C*L))+1
420 PRINT "PAGE NUMBER"; P2
430 FOR I=1 TO 400
    : NEXT I
    : CLS
440 IF P2=P THEN D=N+1-B(1)
    : K=INT(D/C)
    : R=D-K*C
450 '
460 '          SET BREAKPOINTS
470 '
480 FOR I=1 TO C
    : B(I+1)=B(I)+K
490 IF I <= R THEN B(I+1)=B(I+1)+1
500 NEXT I
510 '
520 '          OUTPUT PAGE
530 '
540 FOR I=1 TO K
    : FOR J=1 TO C
550 IF I+B(J)=B(J+1) THEN 630
560 T=INT(((W8-W1+1-C*W)/(C+1))*J+(J-1)*W+W1))
570 '
580 '          OUTPUT STRING
590 '
600 PRINT TAB(I);AS(I+B(J));
610 NEXT J
    : IF T+W-1 < W9 THEN PRINT
620 NEXT I
630 X$=INKEY$
    : IF X$="" THEN 630
640 NEXT H
    : PRINT
    : GOTO 230

```


COCO NOTES

By Terry Feichtenbinder
CCUG President



Welcome to the first issue of ENERGY containing contributions from the Greater Lansing Color Computer Users Group.

Our group is dedicated to promoting the Radio Shack Color Computer (c) and helping it's members get the most from this unique and powerful machine.

I am very glad CCUG has voted to participate in the consortium. ENERGY gives our group a chance to show off, improve member communication and support the computer community.

CCUG, started in October, 1982, has as many diverse computing interests as it has members. In this and future ENERGY issues we will try to represent as many of these areas as possible. We have high expectations for CCUG's section of ENERGY. The only way we can realize those expectations is thru member involvement.

COME ON, CONTRIBUTE! MAKE MY DAY...

Guests are welcome at CCUG meetings. Check the ENERGY calendar for meeting information.



TELECOMMUNICATIONS FOR THE LANSING AREA COCO USER

I wandered into telecommunications quite by accident. As a TRS 80 Model 100 owner all of the necessary hardware and software came along with the machine. I didn't think much of it until I decided that there was something in the machine that I was not using at all. I started using the local bulletin board and I was hooked. About a year later I bought the the COCO. Two of the first additions I acquired were a modem and a terminal program.

I think one of the aspects of computing that we all enjoy is the discovery. Maybe in the capabilities of a program purchased or in our own abilities to write programs that give us pleasure, solve some problem or do some work. I think that it all boils down to the amplification of the power of thought, our own or someone else's.

Telecommunications has this aspect of discovery. What can be discovered. The usual aspects of the performance of hardware and software are there. However much more is out there. You can make new friends and even maybe some day meet them in person. There is help with technical problems. Best of all there is a wealth of public domain software. You will be suprised at the quality of some of the public domain software.

What do you do to get involved in telecommunications and what does it cost? There are two items which are essential, a modem and a terminal program.

Simply, a modem translates the digital information in the computer into analog information that can be handled by the telephone and vice-versa. A terminal program is software that allows the COCO to communicate (in and out) through the RS232 port (the printer plug).

A basic modem with no frills will cost in the range of \$70. to \$110. (if you don't know aready where to get the best price in the area I'll tell you individually.) The good news is the terminal program. There are excellent terminal programs, by a local author, which are in the public domain. One is for a tape system and the other for a disk system. They are currently posted on the Main Menu of Compunet #1 339-3367, one of the local bulletin boards. How do you get one of these programs if you can't call because you don't have aterminal program. (This is the classic chicken and the egg problem). Send a tape with a post paid return mailer to the address at the end of this article and I will send either version to you.

Also there are programs available for about \$30. to \$100. If you are going to purchase a program, make sure it supports uploading and downloading and has a buffer editor. (Take my word for it. The explanation of what this is about would be at least as long as this article).

There is much more to say. The best way to find out about telecommunications is to get "on line" and see what there is out there.

Rud Shulman P. O. Box 28063 Lansing, MI 48901

or leave a message on:

Compunet #1 339-3367 or Babblenet 321-9652.



REVIEW OF "THE PRESIDENTS OF THE UNITED STATES"

SOFTWARE WRITTEN BY SUSAN AND GARY DAVIS

SUGAR SOFTWARE
2153 LEAH LANE
REYNOLDSBURG, OHIO 43068

IT'S ELECTION YEAR FOLKS AND WHAT COULD BE MORE TIMELY THAN A REVIEW OF AN EDUCATIONAL GAME OF THE PRESIDENTS? HERE IS WHAT YOU GET:

- (1) REGISTRATION CARD
- (1) SEVEN PAGE OWNER'S MANUAL
- (1) TAPE (\$24.95) OR DISK (\$29.95) WITH A SERIAL NUMBER ASSIGNED TO YOUR MEDIA

THIS IS A REVIEW OF VERSION 1.0 ON DISK. I WILL TRY TO INDICATE ANY KNOWN DIFFERENCES WITH THE TAPE VERSION. THIS EDUCATIONAL GAME IS RECOMMENDED FOR GRADES 5 AND UP BY THE MANUFACTURER.

"PRES" (AS I WILL REFER TO THE PACKAGE FROM NOW ON) DATA IS USER-MODIFIABLE SO YOU OR YOUR CHILD MAY REVIEW PRESIDENTIAL INFORMATION OTHER THAN WHAT COMES WITH THE PACKAGE. SHOULD REAGAN NOT BE RE-ELECTED, YOU MAY ALSO WISH TO UPDATE THE DATA. THEIR EXAMPLE FOR MODIFYING THE DATA LISTS JANE DOE AS THE 41ST PRESIDENT OF THE UNITED STATES!

THE DATA IS LOGICALLY ARRANGED. WASHINGTON (#1) INFORMATION STARTS WITH LINE 100 AND KENNEDY (#35) INFORMATION BEGINS ON LINE 3500. AS YOU MAY SEE, THE DATA STATEMENTS ARE BASED IN HUNDREDS CORRESPONDING WITH THAT PRESIDENT'S PLACE IN HISTORY.

"PRES" HAS TWO MODES: THE STUDY MODE AND THE GAME MODE. THE STUDY MODE ALLOWS THE USER TO SELECT A PRESIDENT AND THEN VIEW OR PRINT DATA ON THAT PRESIDENT. I COULD NOT GET MY DMP-100 PRINTER TO PRINT THE DATA UNTIL I REALIZED THAT THE "BAUD RATE" ON THE MENU WAS ACTUALLY THE POKE VALUE FOR THE DESIRED BAUD RATE (IT HELPS TO READ THE INSTRUCTIONS THOROUGHLY). THE DISPLAY FUNCTION WORKS WELL.

THE GAME MODE HAS TWO GAMES: A MULTIPLE CHOICE GAME AND AN IDENTIFY THE PRESIDENT BY CLUES GAME. BOTH GAMES ALLOW UP TO 8 PLAYERS TO PARTICIPATE. BOTH GAMES PLAY "HAIL TO THE CHIEF" IF THE PLAYER ANSWERS CORRECTLY ON THE FIRST TRY. THE MULTIPLE CHOICE GAME ALLOWS TWO INCORRECT ANSWERS AND THE IDENTIFY GAME ALLOWS FIVE INCORRECT ANSWERS BEFORE GOING ON TO THE NEXT PLAYER. PLAYERS NOT FAMILAR WITH THE PRESIDENTS WILL FIND THE MULTIPLE CHOICE GAME MORE TO THEIR LIKING. THE IDENTIFY BY CLUE GAME WILL BE ENJOYED MORE BY PLAYERS WITH INTERMEDIATE TO ADVANCED KNOWLEDGE.

"PRES" ON TAPE WILL RUN ON 16K STANDARD BASIC WITHOUT THE GRAPHICS TITLE SCREEN. IF YOU WISH TO USE THE AUTO-RUN FEATURE AND SEE THE GRAPHICS SCREEN WITH THE TAPE VERSION, YOU WILL NEED 16K OR 32K EXTENDED BASIC. THE DISK VERSION REQUIRES 32K EXTENDED BASIC. IT IS COPY PROTECTED ON DISK.

IN SUMMARY, THIS IS A WELL BALANCED PACKAGE CONTAINING BOTH A STUDY MODE FEATURE AND TWO GAME MODE FEATURES. THE MANUAL IS EXCELLENT BUT SHOULD EMPHASIZE THAT THE USER MUST TYPE A PRESIDENT'S NAME EXACTLY AS IMPRINTED ON THE INSIDE BACK COVER AND SHOULD INCLUDE A BAUD RATE POKE CHART FOR THE PRINT FUNCTION. ALL DATA APPEARS TO BE CORRECT AND IS EASY TO MODIFY IF DESIRED. THE MANUFACTURER, SUGAR SOFTWARE, HAS A GOOD REPUTATION IN THE COCO COMMUNITY.

REVIEWED BY:

JOHN EVANS, JR.
4700 SOUTHGATE AVE.
LANSING, MI 48910

ASSORTED COMMON PEEKS & POKES FOR COCO

POKE OR PEEK VALUE	RESULT
POKE 113,0:EXEC 40999	COLD START-UP
POKE 111,254:DIR	PRINTS DISK DIR
POKE 65344,126	DISK MOTOR ON
POKE 65344,0	DISK MOTOR OFF
POKE 65313,4	CASSETTE MOTOR ON
POKE 65313,52	CASSETTE MOTOR OFF
POKE 359,60	HORIZONTAL LIST*
POKE 359,126	RESTORES LIST*
POKE 383,158	DISABLE LIST CMD
POKE 383,0	RESTORES LIST CMD
POKE 282,0	LOWERCASE
POKE 282,1	UPPERCASE RETURN
?PEEK(235)	CURRENT DRIVE #
?PEEK(236)	CURRENT TRACK #
?PEEK(237)	CURRENT SECTOR #

REMEMBER: "?" = "PRINT"

(* = POWER DOWN: UNPLUG DISK CONTROLLER THEN USE)

SUBMITTED BY:

JOHN EVANS, JR.
4700 SOUTHGATE AVE.
LANSING, MI 48910

CCUG

WHAT'S INSIDE

A COLOR COMPUTER 2 OWNER WILL FIND SALT INSIDE HIS OR HER COMPUTER. NO, THIS SALT ISN'T THERE TO PRESERVE MR. CPU. IT IS A CUSTOM-MADE IC WHICH IS RESPONSIBLE FOR SEVERAL FUNCTIONS.

SALT STANDS FOR "SUPPLY AND LEVEL TRANSLATOR". THIS IC (U1) PERFORMS CASSETTE READ OPERATIONS, DRIVES THE RELAY FOR THE CASSETTE MOTOR CONTROL, PROVIDES DC SUPPLY REGULATION, AND RS-232 INTERFACE LEVEL TRANSLATION. TANDY WANTED SALT TO PEEL POTATOES BUT MOTOROLA DID NOT TAKE THAT REQUEST SERIOUSLY!

THE DC SUPPLY REGULATION IS A SIMPLE OPERATION. TRANSISTOR Q1 IS SURROUNDED BY A LARGE HEAT SINK ON THE LEFT SIDE OF THE BOARD. THIS TRANSISTOR DRAWS RAW DC FROM THE BRIDGE RECTIFIER (FORMED BY DIODES CR1, CR2, CR3, & CR4) AT ITS COLLECTOR TO THE R2 (.1 OHM, 1/2 W) RESISTOR AT ITS EMITTER. PIN 3 OF SALT IS CONNECTED TO THE OTHER SIDE OF THIS R2 RESISTOR. SALT MONITORS THE VOLTAGE AT PIN 3 AND CONTROLS THE BASE OF Q1 FROM PIN 1. CURRENT SENSING IS MONITORED BY PIN 2 OF SALT THROUGH A 51 OHM RESISTOR TIED TO THE EMITTER OF THE NOW FAMOUS Q1. (SEE DRAWING)

THE RS-232 INTERFACE LEVEL TRANSLATION-AS TANDY CALLS IT-PERFORMS SEVERAL FUNCTIONS: THE TRANSLATION IS TO AND FROM TTL STANDARDS AND THE LEVEL OF CASSETTE DATA IS CONTROLLED. THE RS-232C INPUT DATA IS FED INTO PIN 14 OF SALT AND THE PROPER TTL VOLTAGES OUTPUT AT PIN 4 TO GO TO PIA (U2, 6821). THE STATUS LINE IS TRANSLATED THE SAME WAY THROUGH PINS 13 (INPUT) AND 14 (TTL OUTPUT). TRANSLATION OCCURS IN REVERSE FOR DATA OUTPUT FROM THE PIA TO PIN 6 AND OUT OF PIN 12.

WHY CAN'T WE CRAM RAW RS-232C DATA AND STATUS INFORMATION DIRECTLY INTO THE PIA? THE DATA LEVELS ARE -3 TO -25 V (MARK) AND +3 TO +25 V (SPACE) WHICH IS QUITE A LOAD FOR A LITTLE 5 VOLT TTL DEVICE TO PROCESS!

THE PIA CAN'T DEAL WITH CASSETTE INPUT DATA EITHER. SO, THE SALT CHIP ACCEPTS THE DATA AT PIN 11 AND OUTPUTS TTL LEVELS AT PIN 7.

THE TRANSISTOR THAT ACTIVATED THE CASSETTE MOTOR RELAY IS NOW A DARLINGTON TRANSISTOR INSIDE SALT.

DID I LOSE YOU? I HOPE NOT! I'VE TRIED TO KEEP THE TECHNICAL JARGON DOWN SO EVERYONE CAN FOLLOW ALONG.

WHY DID TANDY MAKE THIS CHANGE? TO SIMPLIFY THE COCO II DESIGN AND TO REDUCE MANUFACTURING COSTS. MAKING A CUSTOM IC IS COSTLY BUT THE PARTS THAT SALT REPLACES AS WELL AS THE COSTS OF ASSEMBLY FOR SEVERAL PARTS VERSES ONE PART SPEAKS FOR ITSELF. THE RS-232C OUTPUT WAS HANDLED BY AN OP AMP WHICH NEEDED +12/-12 VOLTS. THE REDESIGN ELIMINATED ALL BUT +5 VOLTS. SPACE WAS ALSO A FACTOR.

SALT DIAGRAM

```

FROM CR3-4 >..... Q 1 .....R 2.....> DC OUTPUT
:      :      :      :
:      :      R 1      :
: .....:..... :      :
: : P1 P2:....:      :
: :P16 P3:.....:
:      :
TO PIA U2-10<--:P4 P14:----<RS-232C DATA INPUT
:      :
TO PIA U2-40<--:P5 P13:----<RS-232C CD INPUT
:      : (STATUS)
: U1 :
: SALT :
:      :
FROM PIA U2-3->:P6 P12:---->RS-232C DATA OUTPUT
:      :
TO PIA U2-2<--:P7 P11:----<CASSETTE DATA IN
:.....:
    
```

SEASONALLY SUBMITTED BY:

JOHN EVANS, JR.
4700 SOUTHGATE AVE.
LANSING, MI 48910



FIRST IMPRESSIONS

SINCE JANUARY, I'VE WANTED TO ATTEND A MEETING OF THE GREATER LANSING COLOR COMPUTER USER'S GROUP (GLCCUG) TO SEE WHAT IT WAS ALL ABOUT. ON AUGUST 4TH, I FINALLY MADE IT TO THE CLUB MEETING! IT WAS INTERESTING SO I BECAME A MEMBER. AS A NEWCOMER, MY COMMENTS MAY BE OF INTEREST TO MEMBERS AND ESPECIALLY NON-MEMBERS WHO ARE AS CURIOUS ABOUT "THAT CLUB" AS I WAS.

THE OVERALL ATMOSPHERE OF THE MEETING WAS RELAXED. AFTER THE MEETING, I NOTICED SEVERAL MEMBERS WERE GETTING HELPFUL ANSWERS TO THEIR QUESTIONS. I LIKED THOSE QUALITIES. THAT IS PART OF WHAT A CLUB IS ABOUT-NO MATTER WHAT THE FOCUS OF THE CLUB HAPPENS TO BE.

LAST APRIL, I BECAME A MEMBER OF THE MID-MICHIGAN GENEALOGICAL SOCIETY. I ATTENDED THE LAST MEETING BEFORE SUMMER BREAK IN MAY. WHEN I WALKED INTO THE ROOM, EVERYONE WAS GREETED BY AN ELDERLY LADY (WHY IS IT THAT THE OLDER FOLKS HAVE A STRONGER INTEREST IN THEIR FAMILY HISTORY THAN THE YOUNG?). SHE WELCOMED THE INDIVIDUAL, ASKED THEM TO SIGN AN ATTENDANCE SHEET, MADE A NAME TAG (THIS IS A LARGE GROUP!), AND ANSWERED ANY QUESTIONS THE ARRIVING PERSON MIGHT HAVE. WHEN I WALKED INTO THE ROOM AT THE COLOR COMPUTER USER'S GROUP, NO ONE EVEN SAID, "HI". WHICH CLUB WOULD YOU RATHER GO TO?

GRANTED, IT'S NOT NECESSARY FOR GLCCUG TO MAKE NAME TAGS OR FUSS OVER EVERYONE WHO WALKS IN. IT IS IN THE CLUB'S BEST INTEREST TO WELCOME THOSE WHO ATTEND-ESPECIALLY NEW FACES. BOTH NEW AND OLD FACES CAN CONTRIBUTE TO A CLUB. THEY CAN CONTRIBUTE TIME, IDEAS, PROGRAMS, INFORMATION, AND-OH YES, DUES.

THE RELAXED ATMOSPHERE I MENTIONED EARLIER ALLOWS A MEMBER TO GET OUT OF THE CLUB AND MEETINGS EXACTLY WHAT THEY ARE LOOKING FOR. OBSERVATION (AS I WAS DOING) OR PARTICIPATION ARE THE MEMBERSHIP'S CHOICE. OF COURSE, AN INDIVIDUAL WON'T GET MUCH FROM TOTAL OBSERVATION. WHAT ONE PUTS IN DETERMINES HOW MUCH ONE WILL GET OUT OF ALMOST ANYTHING.

I CONSIDER MYSELF TO BE A BEGINNING PROGRAMMER. I AM AN ELECTRONICS TECHNICIAN BY PROFESSION SO MY LEVEL OF KNOWLEDGE WITH RESPECT TO HARDWARE IS INTERMEDIATE TO ADVANCED. EACH PERSON HAS GREAT RESOURCES AND BLIND AREAS. I CAN

LEARN FROM YOU AND YOU CAN LEARN FROM ME-NO MATTER WHERE WE ARE IN COMPUTING. A CLUB IS A GREAT PLACE FOR THAT LEARNING PROCESS TO HAPPEN. AN ATMOSPHERE WHICH INHIBITS THAT LEARNING PROCESS DISCOURAGES PARTICIPATION THEREBY REDUCING THE SUCCESS OF THE CLUB. WHO WANTS TO JOIN A DYING CLUB? THIS IS WHY I PLACED IMPORTANCE ON THE ALMIGHTY "ATMOSPHERE" AND WHY GLCCUG HAS ALOT OF POTENTIAL FOR COLOR COMPUTER OWNERS.

KEEP UP THE GOOD WORK GLCCUG!

THIS BUG ALERT/PAT ON BACK SUBMITTED BY:

JOHN EVANS, JR.
4700 SOUTHGATE AVE.
LANSING, MI 48910

THE BAUD RATES

THE DEFAULT BAUD RATE SET INSIDE YOUR COLOR COMPUTER AT COLD START IS 600. IF YOU HAVE A PRINTER OR OTHER DEVICE WHICH CAN/MUST OPERATE AT A HIGHER/LOWER RATE THEN THE TABLE BELOW WILL HELP.

DESIRED BAUD RATE	POKE VALUE
50	POKE 150,88
75	POKE 150,227
110	POKE 150,246
150	POKE 150,110
300	POKE 150,180
600-DEFAULT	POKE 150,87
1200	POKE 150,41
2400	POKE 150,18
9600	POKE 150,1

IF YOU HAVE A PROGRAM WHICH HAS NO IN/OUT (SUCH AS A PRINTER-WHEN THE PROGRAM IS SUPPOSE TO PRINT), CHECK FOR THESE POKE AT THE START OF THE IN/OUT ROUTINE. IT MAY BE THAT THE AUTHOR HAS DIFFERENT EQUIPMENT AND SLIPPED IN A POKE SOMEWHERE IN THE PROGRAM.

IMPORTANT! THE HIGH SPEED POKE (65497,0) DOUBLES THE BAUD RATE. SO, RESTORE YOUR COMPUTER (65496,0) IF YOUR PREVIOUS PROGRAM USED IT OR REMOVE IT FROM THE PROGRAM YOU INTEND TO RUN. THERE ARE BAUD RATES USED OTHER THAN LISTED ABOVE.

SUBMITTED BY:

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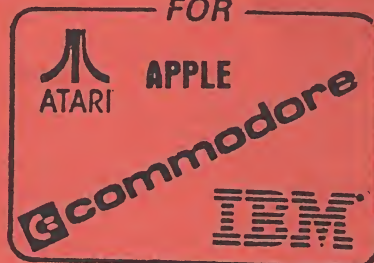
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